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General technical specifications for low concentration coal mine gas alternating current generating sets driven by reciprocating internal combustion engine

煤矿低浓度瓦斯往复式内燃机驱动的交流发电机组通用技术条件

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General technical specifications for low concentration coal mine gas alternating current generating sets driven by reciprocating internal combustion engine

1 Scope

This standard specifies the model naming, technical requirements, test methods, inspection rules, marking, packaging, transport and storage of generator set driven by reciprocating internal combustion engine fueled by coal mine gas having a low concentration.

This standard is applicable to 200 kW~2,000 kW AC power frequency generator sets driven by reciprocating internal combustion engine fueled by coal mine gas having a low concentration.

2 Normative References

The following documents contain provisions which, through reference in this standard, constitute provisions of this standard. For dated references, subsequent amendments (excluding corrections), or revisions, of any of these publications do not apply to this standard. However, parties to agreements based on this standard are encouraged to investigate the possibility of applying the most recent editions of the normative documents indicated below. For undated references, the latest edition of the normative document applies.

GB/T 191	*Packaging - Pictorial marking for handling of goods*
GB/T 2820.2-1997	*Reciprocating internal combustion engine driven alternating current generating sets - Part 2: Engines*
GB/T 2820.3-1997	*Reciprocating internal combustion engine driven alternating current generating sets - Part 3: Alternating current generators for generating sets*
GB/T 2820.4-1997	*Reciprocating internal combustion engine driven alternating current generating sets - Part 4: Controlgear and switchgear*
GB/T 2820.5-1997	*Reciprocating internal combustion engine driven alternating current generating sets - Part 5: Generating sets*
GB/T 2820.6-1997	*Reciprocating internal combustion engine driven alternating current generating sets - Part 6: Test methods*
GB/T 2820.9-2002	*Reciprocating internal combustion engine driven alternating current generating sets - Part 9: Measurement and evaluation of mechanical*

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	vibrations
GB/T 2820.10-2002	*Reciprocating internal combustion engine driven alternating current generating sets - Part 10: Measurement of airborne noise by the enveloping surface method*
GB 4556-2001	*Reciprocating internal combustion engines - Fire protection*
GB/T 6072.1-2000	*Reciprocating internal combustion engines - Performance - Part 1: Standard reference conditions, declarations of power, fuel and lubricating oil consumptions, and test methods*
GB 14097-1999	*Noise limits for small and medium power diesel engines*
GB/T 15548-1995	*General specification for three-phase synchronous generator driven by reciprocating internal combustion engine*
GB 17691-2005	*Limits and measurement methods for exhaust pollutants from compression ignition and gas fueled positive ignition engines of vehicles (III IV V)*
AQ 1074-2009	*Dry-type flame arrester for coal mine gas transmission pipelines - General technical specification*
JB T 8182-1999	*General technical conditions for control panel of AC movable power plant*
JB 8890-1999	*Reciprocating internal combustion engines - Safety requirement*
JB/T 9583.1-1999	*General technical conditions for gas fuel generating sets*
JB/T 10629-2006	*Gas engines - General requirements and test methods*

3 Terms and Definitions

For the purposes of this standard, the following terms and definitions apply.

3.1

low concentration coal mine gas engine

a reciprocating internal combustion engine fueled by coal mine gas having a concentration of less than 30%, hereinafter referred to as gas engine

3.2

low concentration coal mine gas generator set

It is mainly composed of coal mine gas engine, generator, control device, etc., hereinafter referred to as gas generator set.

3.3

flameproof check valve

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